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## SEQUENCE LISTING

&lt;110&gt; Japan Science and Technology Agency

&lt;120&gt; Royal Jelly Peptide

&lt;130&gt; 04F039PCT

&lt;150&gt; JP 2003-338665

&lt;151&gt; 2003-09-29

&lt;160&gt; 17

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 37

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer 1

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1).. (37)

&lt;223&gt; i

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&lt;400&gt; 1

aaraenwsna thwsngtnaa rggngarwsn aaygtng

37

&lt;210&gt; 2

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer 2

&lt;400&gt; 2

cgttggcacc agacacgata gatgaaacc

29

&lt;210&gt; 3

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer 3

&lt;400&gt; 3

tttctgaatt ttattaatta ctttattcg

29

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&lt;210&gt; 4

&lt;211&gt; 50

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 1

&lt;400&gt; 4

aaaacctcta tctctgttaa aggcgaatcc aacgttgatg ttgtttccca

50

&lt;210&gt; 5

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 2

&lt;400&gt; 5

gatcaactct ctggtttctt ctatcgtttc tggtagtaac

40

&lt;210&gt; 6

&lt;211&gt; 40

&lt;212&gt; DNA

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 3

&lt;400&gt; 6

gtttctgcag tactgctggc tcagactctg gttaacatcc

40

&lt;210&gt; 7

&lt;211&gt; 38

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 4

&lt;400&gt; 7

tgcagatcct gatcgacgct aacgttttcg cttaatatg

38

&lt;210&gt; 8

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 5

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&lt;400&gt; 8

ttttggagat agagacaatt tccgcttagg ttgcaactac

40

&lt;210&gt; 9

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 6

&lt;400&gt; 9

aacaaagggc ctagttgaga gaccaaagaa gatagcaaag

40

&lt;210&gt; 10

&lt;211&gt; 40

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 7

&lt;400&gt; 10

accacgattg caaagacgtc atgacgaccg agtctgagac

40

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&lt;210&gt; 11

&lt;211&gt; 48

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Fragment 8

&lt;400&gt; 11

caattgtagg acgtctagga ctgctgcga ttgcaaaagc gaattatc

48

&lt;210&gt; 12

&lt;211&gt; 31

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; LIC Forward

&lt;400&gt; 12

ggtattgagg gtcgaaaac ctctatctct g

31

&lt;210&gt; 13

&lt;211&gt; 33

&lt;212&gt; DNA

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; LIC Reverse

&lt;400&gt; 13

agaggagagt tagagcccta ttaagcgaaa acg

33

&lt;210&gt; 14

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; bee

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1).. (162)

&lt;223&gt; unknown

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1).. (162)

&lt;223&gt;

&lt;400&gt; 14

aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc

48

Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser

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1	5	10	15	
caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca				96
Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser				
	20	25	30	
gca gta ctc cta gct caa act tta gtt aat atc ctg caa att mn atc				144
Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile				
	35	40	45	
gac gct aat gtt ttc gct				162
Asp Ala Asn Val Phe Ala				
50				

&lt;210&gt; 15

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; bee

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (47).. (47)

<223> The 'Xaa' at location 47 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Xaa, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

&lt;400&gt; 15



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Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser

1

5

10

15

Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser

20

25

30

Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile

35

40

45

Asp Ala Asn Val Phe Ala

50

&lt;210&gt; 16

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; bee

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1).. (162)

&lt;223&gt;

&lt;400&gt; 16

10/11

aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc 48

Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser

1 5 10 15

caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca 96

Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser

20 25 30

gca gta ctc cta gct caa act tta gtt aat atc ctg caa att ctt atc 144

Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile

35 40 45

gac gct aat gtt ttc gct 162

Asp Ala Asn Val Phe Ala

50

<210> 17

<211> 54

<212> PRT

<213> bee

<400> 17

Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser

1 5 10 15

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Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser

20

25

30

Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile

35

40

45

Asp Ala Asn Val Phe Ala

50